

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021023\
 Data File : BG056614.D
 Acq On : 10 Feb 2023 20:45
 Operator : CG/JU
 Sample : 01510-07
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 JPP-51B-020823

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/13/2023
 Supervised By : Jagrut Upadhyay 02/13/2023

Quant Time: Feb 10 22:50:34 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 10 22:46:08 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.208	152	36498	20.000	ng	0.00
21) Naphthalene-d8	11.040	136	139705	20.000	ng	0.00
39) Acenaphthene-d10	14.842	164	98690	20.000	ng	0.00
64) Phenanthrene-d10	17.580	188	230826	20.000	ng	0.00
76) Chrysene-d12	21.869	240	212027	20.000	ng	0.00
86) Perylene-d12	25.253	264	237732	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.735	112	155675	78.464	ng	0.00
7) Phenol-d6	7.368	99	217065	73.839	ng	0.00
23) Nitrobenzene-d5	9.389	82	119834	48.708	ng	0.00
42) 2,4,6-Tribromophenol	16.322	330	91437	69.692	ng	0.00
45) 2-Fluorobiphenyl	13.461	172	367245	51.592	ng	0.00
79) Terphenyl-d14	20.159	244	583214	48.312	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.093	128	63288	8.583	ng	98
37) 2-Methylnaphthalene	12.680	142	21039	3.461	ng	96
38) 1-Methylnaphthalene	12.897	142	12248	2.157	ng	90
49) Acenaphthylene	14.566	152	25616	2.814	ng	# 93
55) Dibenzofuran	15.236	168	47718	4.929	ng	95
58) Fluorene	15.882	166	23361	3.033	ng	# 96
71) Phenanthrene	17.621	178	532831	44.105	ng	99
72) Anthracene	17.709	178	134274	10.827	ng	99
73) Carbazole	17.979	167	40717	3.855	ng	96
75) Fluoranthene	19.619	202	1070513	70.208	ng	98
78) Pyrene	19.983	202	1120100	74.278	ng	98
81) Benzo(a)anthracene	21.851	228	720868	48.631	ng	98
83) Chrysene	21.922	228	709269	50.931	ng	97
87) Indeno(1,2,3-cd)pyrene	29.149	276	575278	33.058	ng	# 96
88) Benzo(b)fluoranthene	24.178	252	1193662	80.894	ng	98
89) Benzo(k)fluoranthene	24.243	252	356232m	23.911	ng	
90) Benzo(a)pyrene	25.100	252	908171	62.480	ng	100
91) Dibenzo(a,h)anthracene	29.172	278	164586	11.267	ng	# 86
92) Benzo(g,h,i)perylene	30.382	276	581935	41.288	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

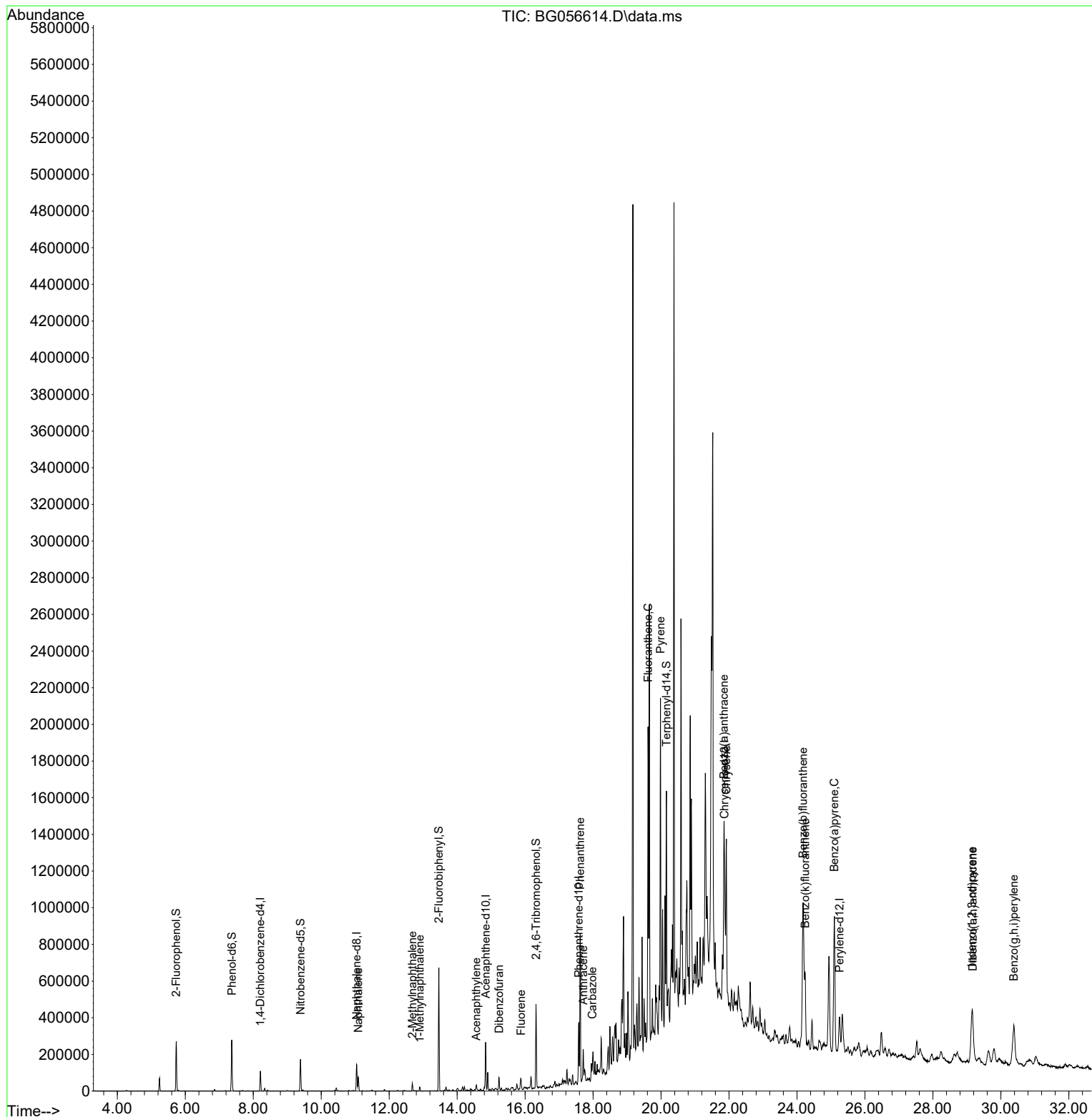
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021023\
Data File : BG056614.D
Acq On : 10 Feb 2023 20:45
Operator : CG/JU
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ALS Vial : 13 Sample Multiplier: 1

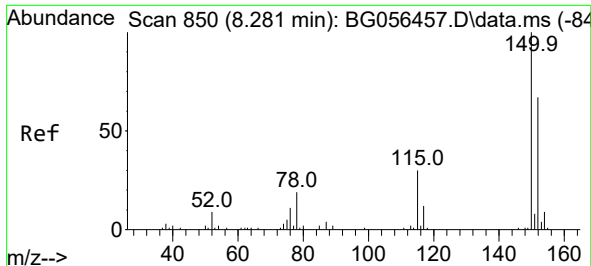
Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823

Quant Time: Feb 10 22:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 10 22:46:08 2023
Response via : Initial Calibration

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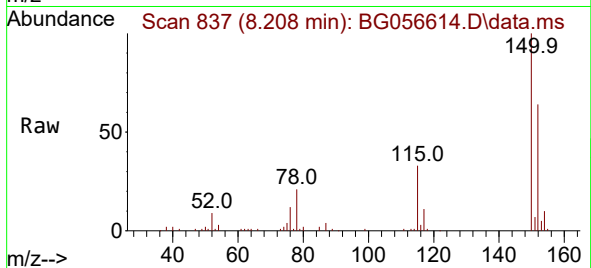
Reviewed By : Christian Giraldo 02/13/2023
Supervised By : Jagrut Upadhyay 02/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.208 min Scan# 81
Delta R.T. 0.001 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

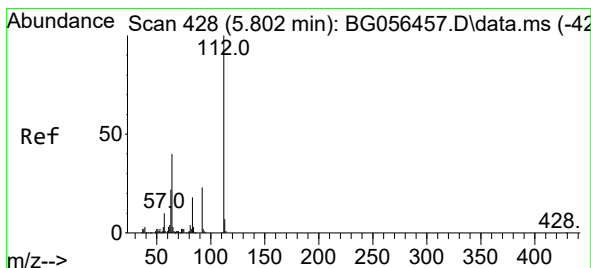
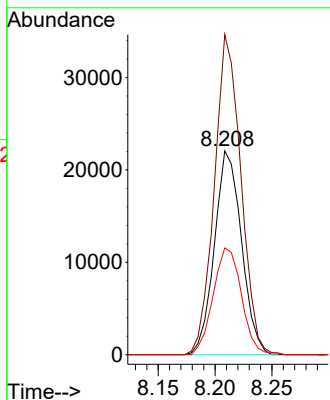
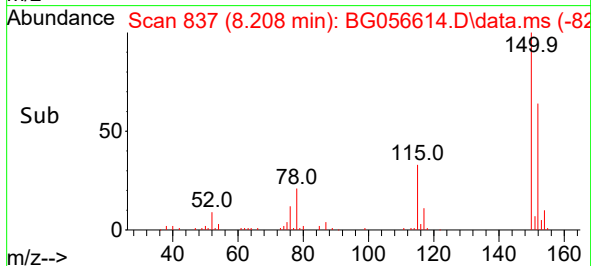
Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823



Tgt Ion:152 Resp: 36498
Ion Ratio Lower Upper
152 100
150 157.0 120.2 180.4
115 52.3 36.3 54.5

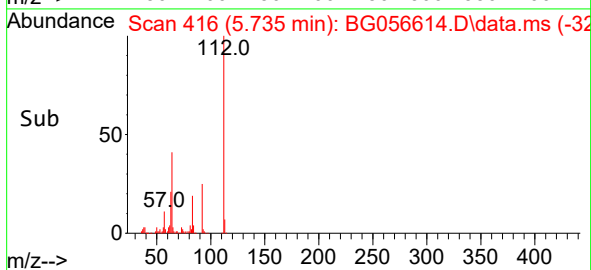
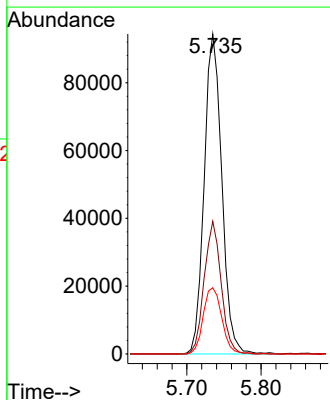
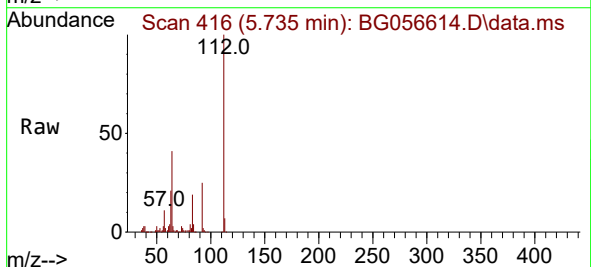
Manual Integrations
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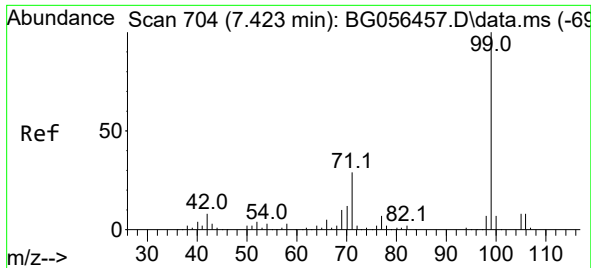
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023



#5
2-Fluorophenol
Concen: 78.464 ng
RT: 5.735 min Scan# 416
Delta R.T. 0.007 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

Tgt Ion:112 Resp: 155675
Ion Ratio Lower Upper
112 100
64 41.4 31.9 47.9
63 20.7 17.4 26.0





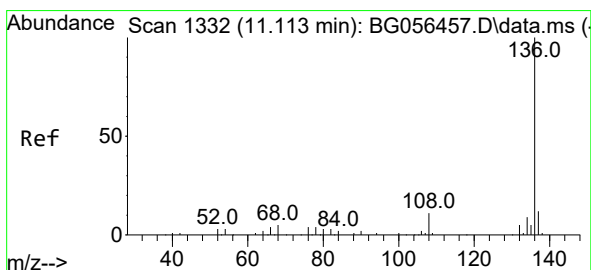
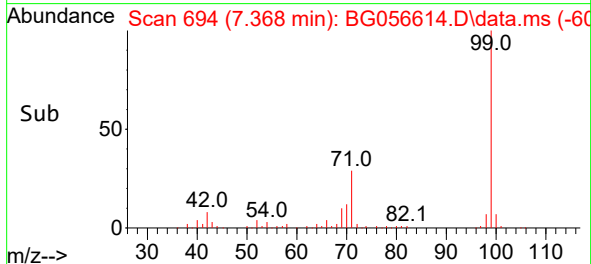
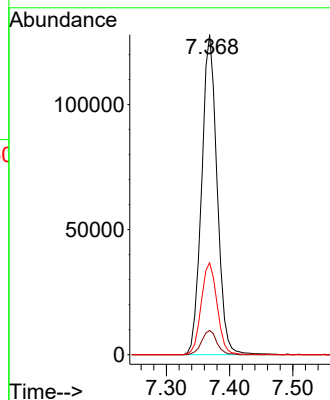
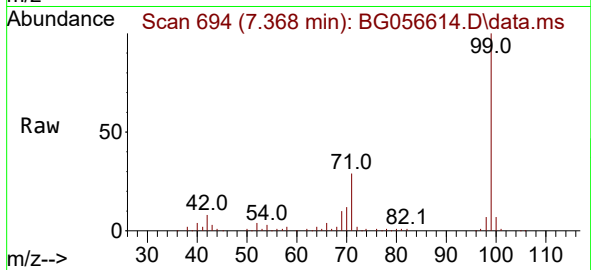
#7
Phenol-d6
Concen: 73.839 ng
RT: 7.368 min Scan# 61
Delta R.T. 0.001 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823

Tgt Ion: 99 Resp: 21706
Ion Ratio Lower Upper
99 100
42 7.6 6.6 10.0
71 28.7 23.4 35.0

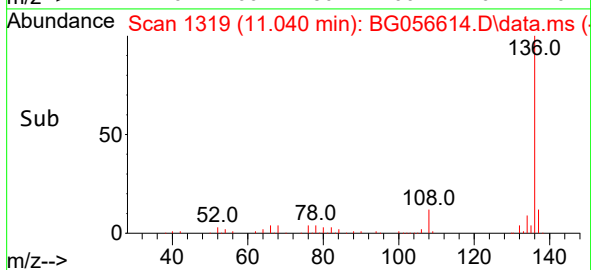
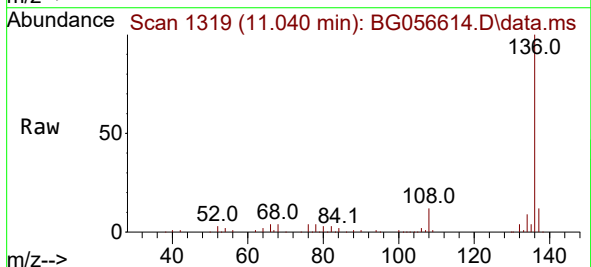
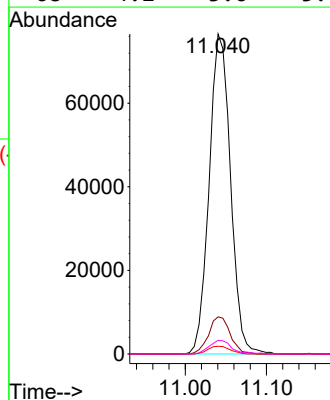
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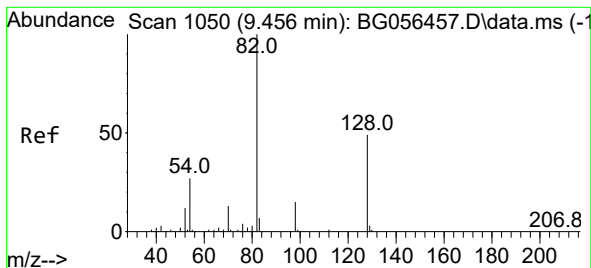
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.040 min Scan# 1319
Delta R.T. -0.005 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

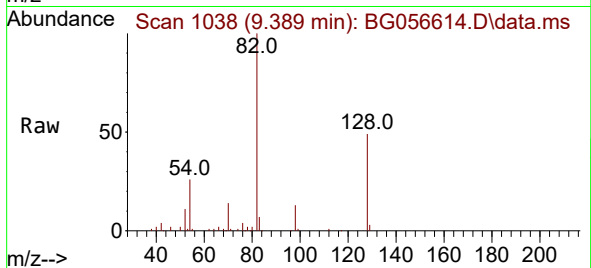
Tgt Ion:136 Resp: 139705
Ion Ratio Lower Upper
136 100
137 11.6 9.4 14.0
54 2.4 2.2 3.4
68 4.2 3.6 5.4





#23
Nitrobenzene-d5
Concen: 48.708 ng
RT: 9.389 min Scan# 110
Delta R.T. 0.001 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

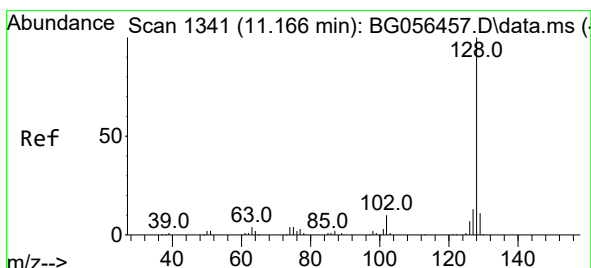
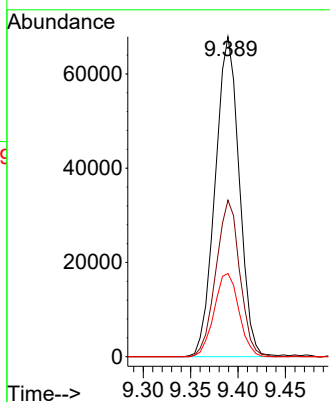
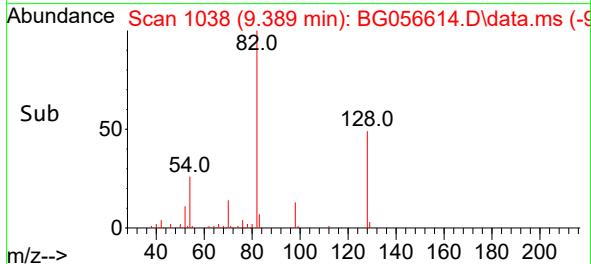
Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823



Tgt Ion: 82 Resp: 119834
Ion Ratio Lower Upper
82 100
128 48.9 39.4 59.2
54 26.0 21.4 32.2

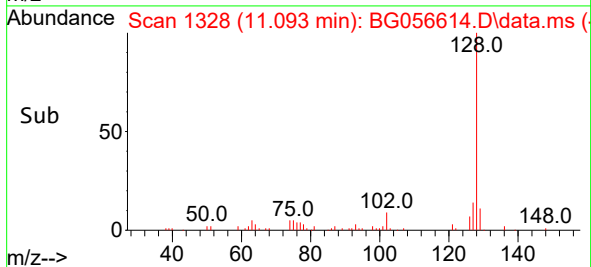
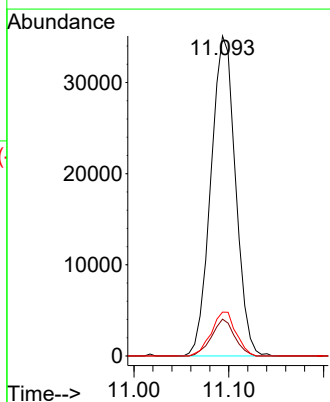
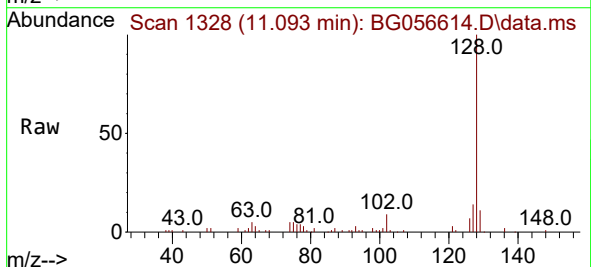
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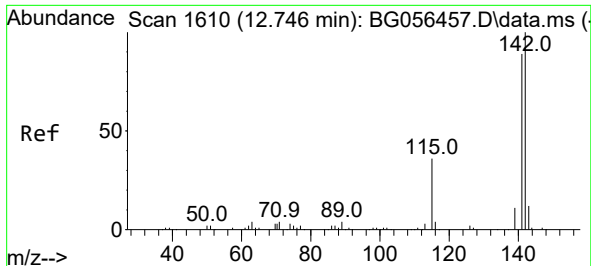
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023



#31
Naphthalene
Concen: 8.583 ng
RT: 11.093 min Scan# 1328
Delta R.T. -0.005 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

Tgt Ion:128 Resp: 63288
Ion Ratio Lower Upper
128 100
129 11.5 8.7 13.1
127 13.7 10.4 15.6





#37

2-Methylnaphthalene

Concen: 3.461 ng

RT: 12.680 min Scan# 1

Delta R.T. -0.005 min

Lab File: BG056614.D

Acq: 10 Feb 2023 20:45

Instrument :

BNA_G

ClientSampleId :

JPP-51B-020823

Tgt Ion:142 Resp: 21039

Ion Ratio Lower Upper

142 100

141 86.0 71.4 107.0

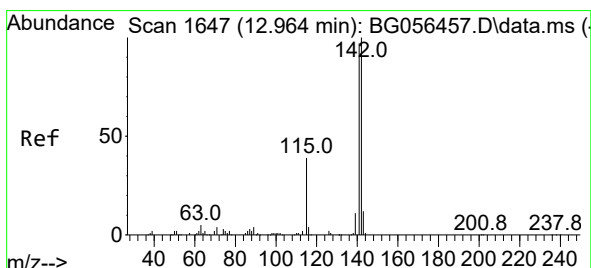
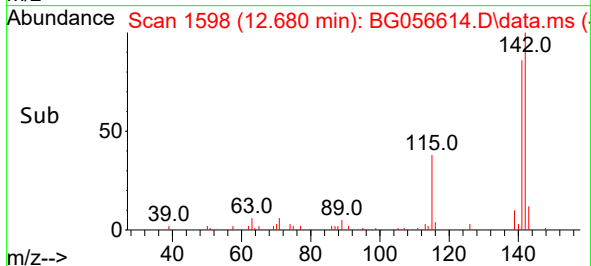
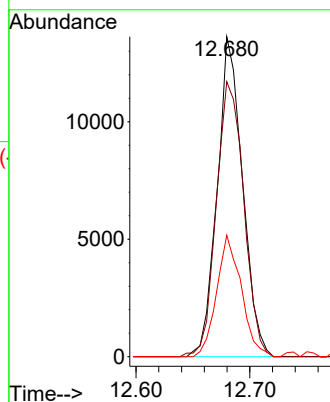
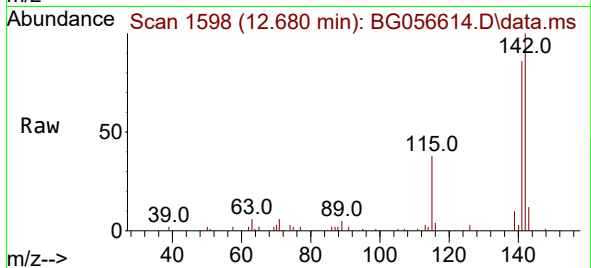
115 37.9 28.4 42.6

Manual Integrations

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Reviewed By :Christian Giraldo 02/13/2023

Supervised By :Jagrut Upadhyay 02/13/2023



#38

1-Methylnaphthalene

Concen: 2.157 ng

RT: 12.897 min Scan# 1635

Delta R.T. -0.005 min

Lab File: BG056614.D

Acq: 10 Feb 2023 20:45

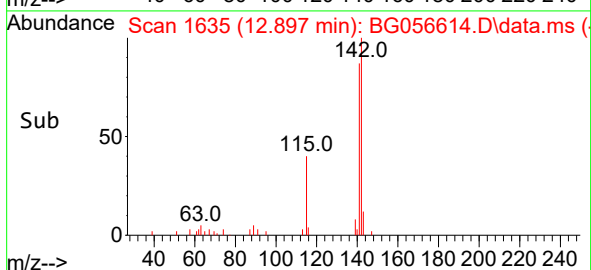
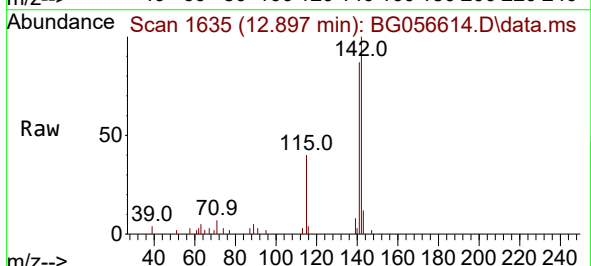
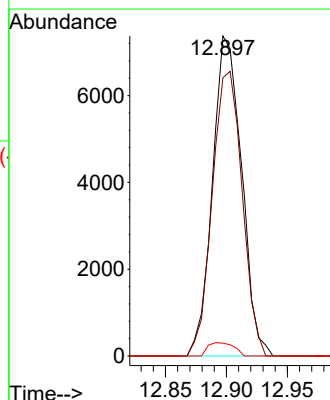
Tgt Ion:142 Resp: 12248

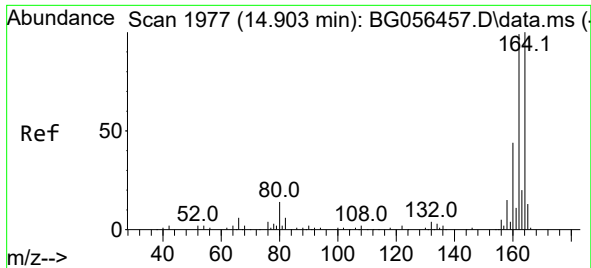
Ion Ratio Lower Upper

142 100

141 87.0 77.7 116.5

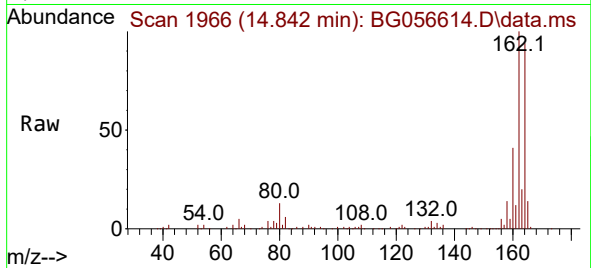
116 4.0 3.4 5.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.842 min Scan# 1977
Delta R.T. 0.001 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

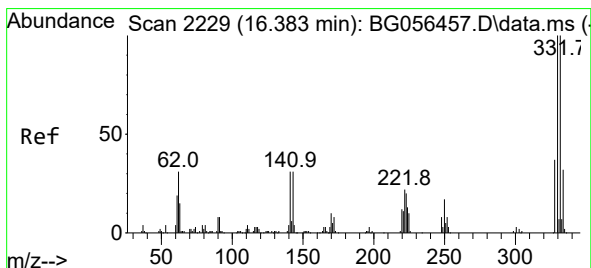
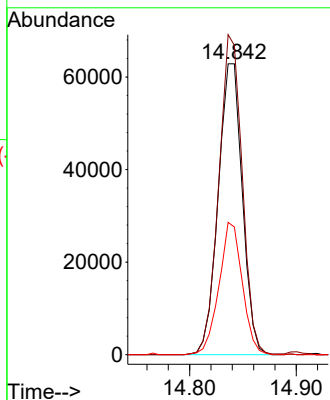
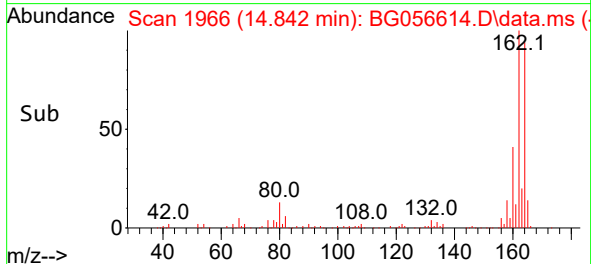
Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823



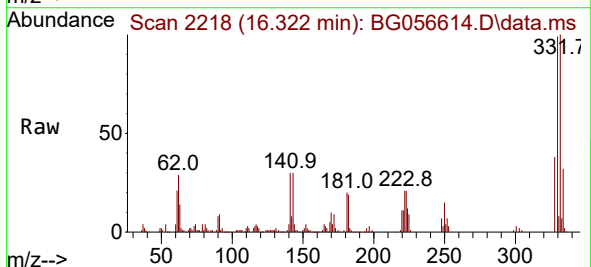
Tgt Ion:164 Resp: 98690
Ion Ratio Lower Upper
164 100
162 106.4 79.6 119.4
160 43.9 34.9 52.3

Manual Integrations
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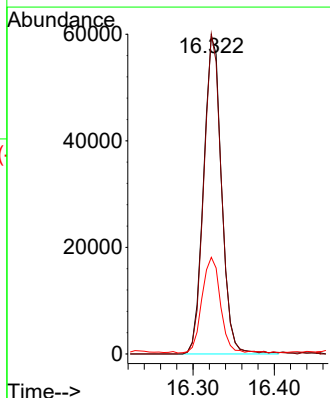
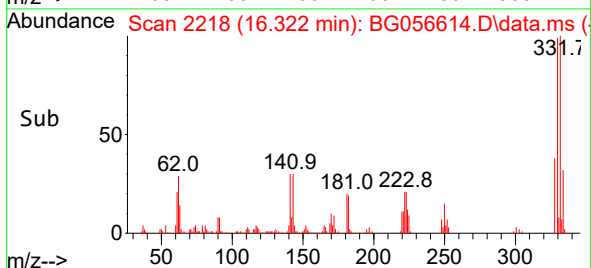
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023

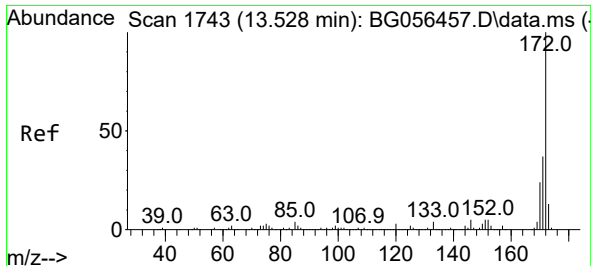


#42
2,4,6-Tribromophenol
Concen: 69.692 ng
RT: 16.322 min Scan# 2218
Delta R.T. -0.005 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45



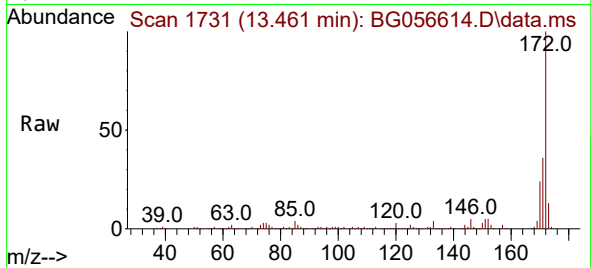
Tgt Ion:330 Resp: 91437
Ion Ratio Lower Upper
330 100
332 98.0 79.0 118.6
141 30.7 24.2 36.4





#45
2-Fluorobiphenyl
Concen: 51.592 ng
RT: 13.461 min Scan# 1743
Delta R.T. -0.005 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

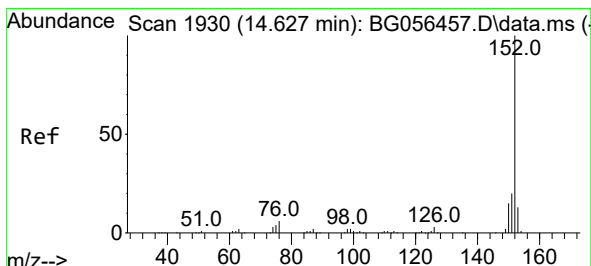
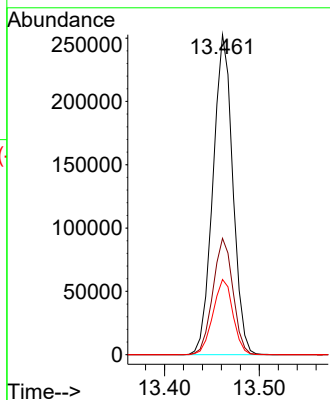
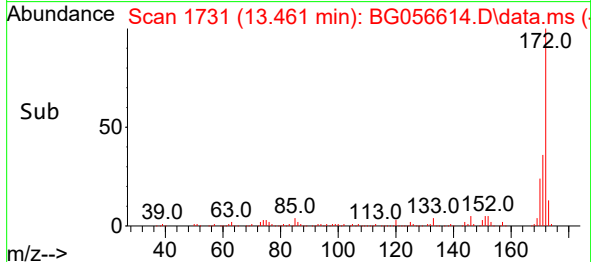
Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823



Tgt Ion:172 Resp: 367249
Ion Ratio Lower Upper
172 100
171 36.4 29.5 44.3
170 23.5 19.2 28.8

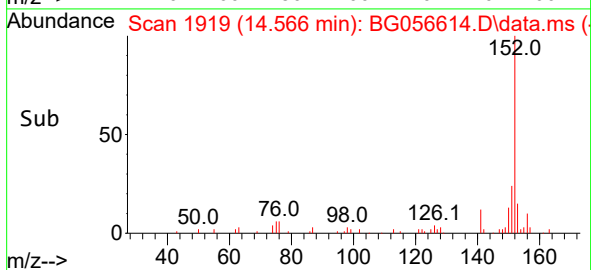
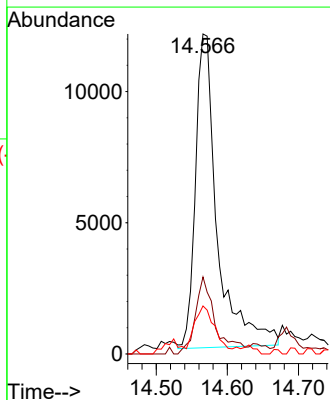
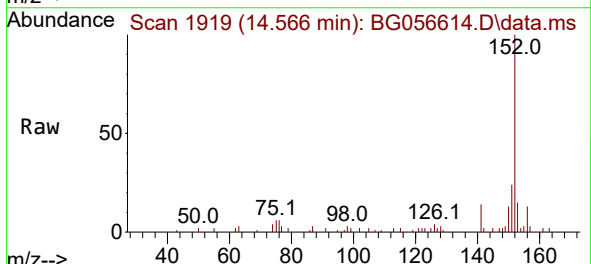
Manual Integrations
APPROVED

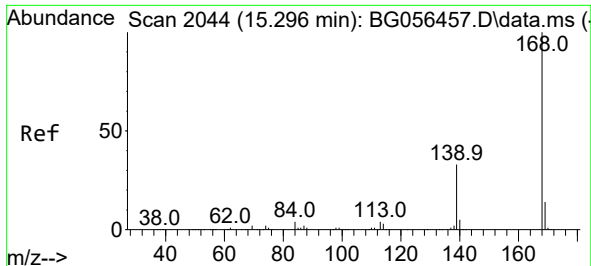
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023



#49
Acenaphthylene
Concen: 2.814 ng
RT: 14.566 min Scan# 1919
Delta R.T. -0.005 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

Tgt Ion:152 Resp: 25616
Ion Ratio Lower Upper
152 100
151 24.0 15.9 23.9#
153 15.0 10.5 15.7





#55

Dibenzenofuran

Concen: 4.929 ng

RT: 15.236 min Scan# 2044

Delta R.T. -0.005 min

Lab File: BG056614.D

Acq: 10 Feb 2023 20:45

Instrument :

BNA_G

ClientSampleId :

JPP-51B-020823

Tgt Ion:168 Resp: 47718

Ion Ratio Lower Upper

168 100

139 35.6 26.2 39.2

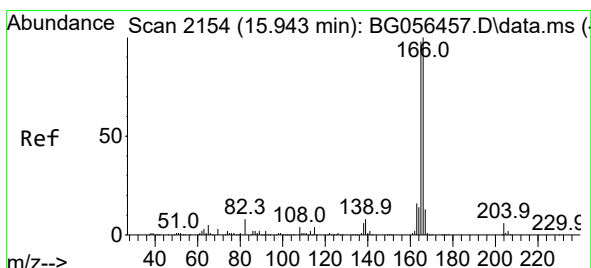
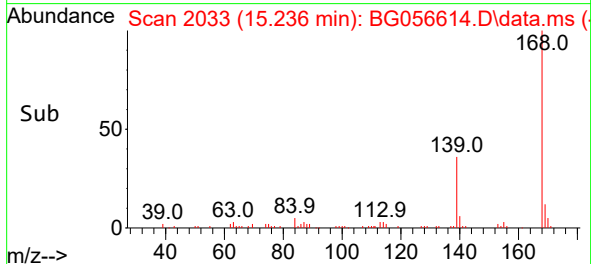
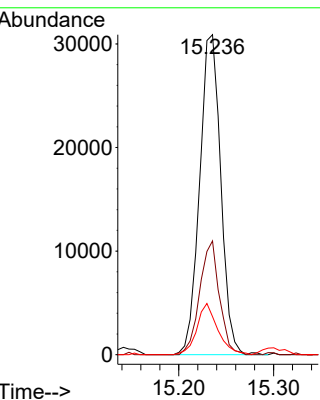
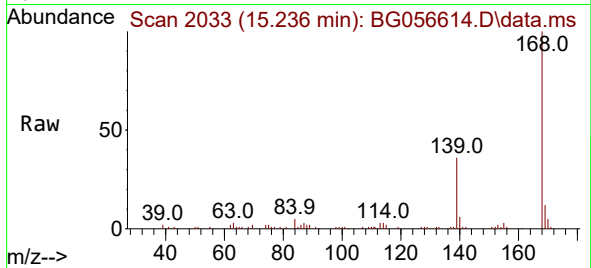
169 11.9 11.0 16.6

Manual Integrations

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Reviewed By :Christian Giraldo 02/13/2023

Supervised By :Jagrut Upadhyay 02/13/2023



#58

Fluorene

Concen: 3.033 ng

RT: 15.882 min Scan# 2143

Delta R.T. -0.005 min

Lab File: BG056614.D

Acq: 10 Feb 2023 20:45

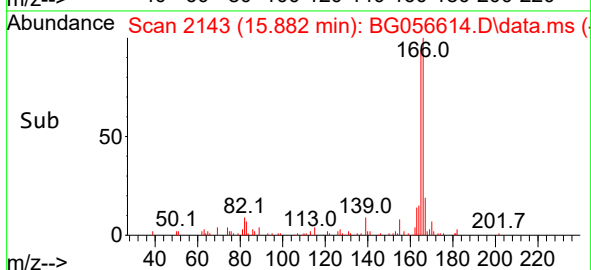
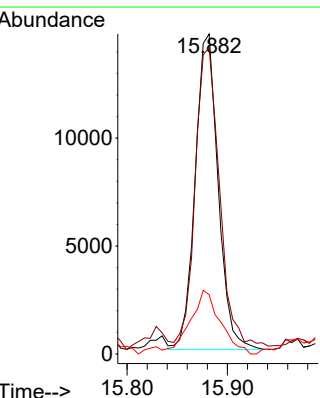
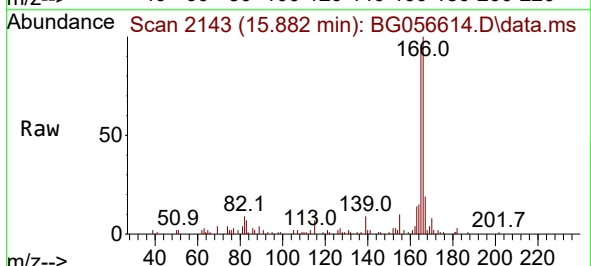
Tgt Ion:166 Resp: 23361

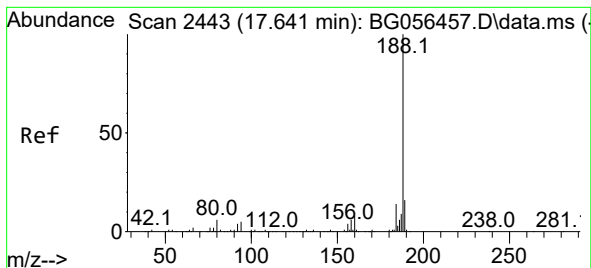
Ion Ratio Lower Upper

166 100

165 95.8 78.8 118.2

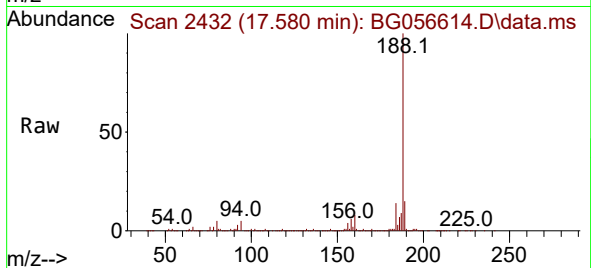
167 18.5 10.6 15.8#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.580 min Scan# 2443
Delta R.T. -0.005 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

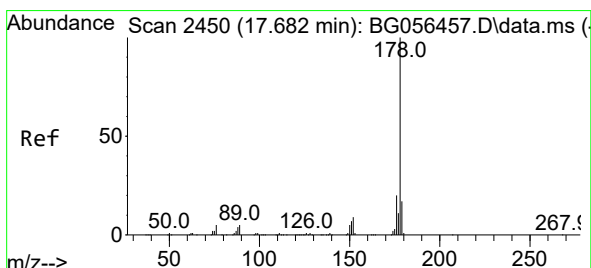
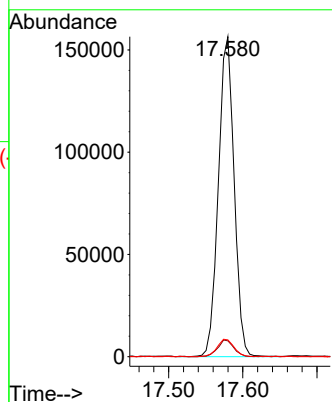
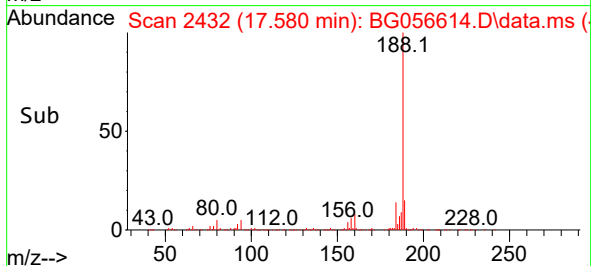
Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823



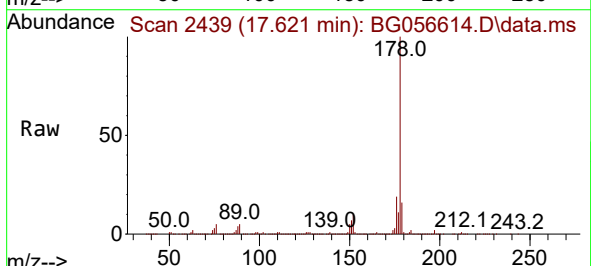
Tgt Ion:188 Resp: 230820
Ion Ratio Lower Upper
188 100
94 5.0 4.1 6.1
80 5.2 5.0 7.4

Manual Integrations
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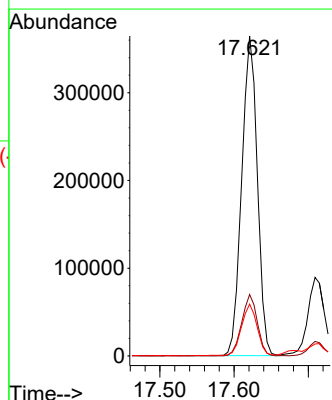
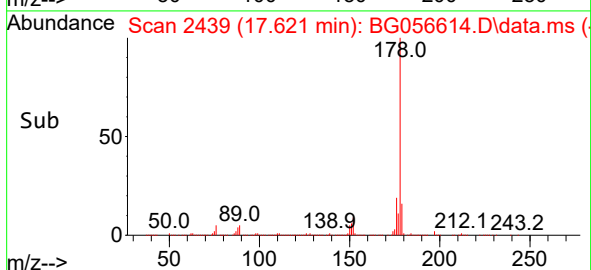
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023

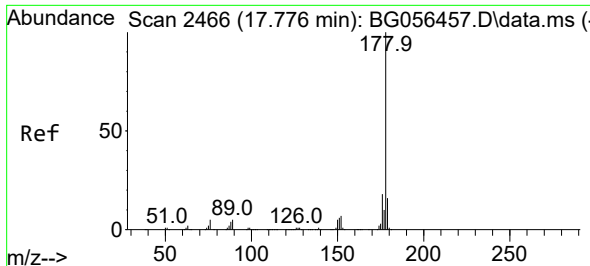


#71
Phenanthrene
Concen: 44.105 ng
RT: 17.621 min Scan# 2439
Delta R.T. -0.005 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45



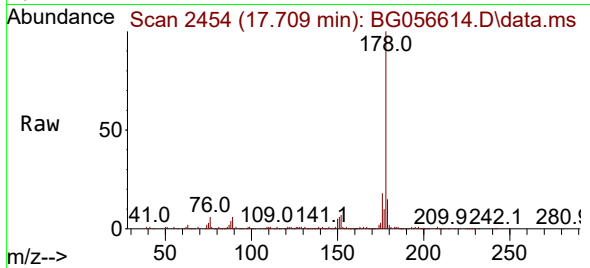
Tgt Ion:178 Resp: 532831
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 16.2 13.3 19.9





#72
 Anthracene
 Concen: 10.827 ng
 RT: 17.709 min Scan# 2466
 Delta R.T. -0.005 min
 Lab File: BG056614.D
 Acq: 10 Feb 2023 20:45

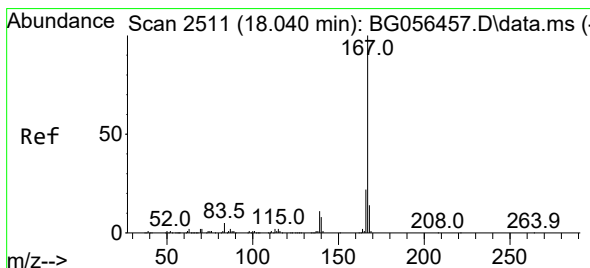
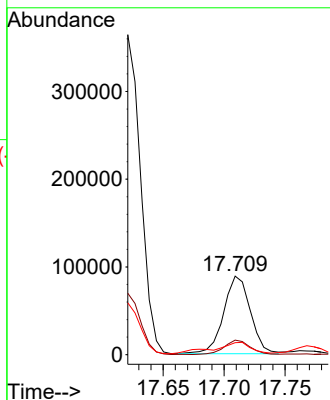
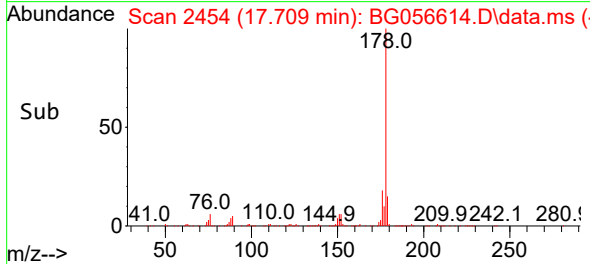
Instrument :
 BNA_G
 ClientSampleId :
 JPP-51B-020823



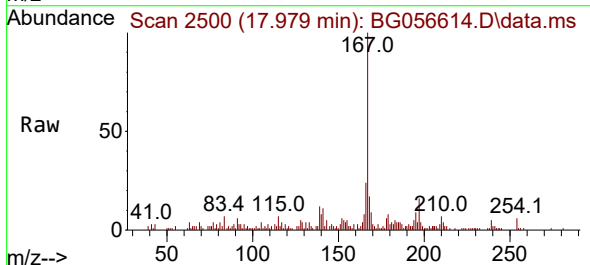
Tgt Ion:178 Resp: 134274
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.5 21.7
 179 15.3 12.5 18.7

Manual Integrations
 APPROVED

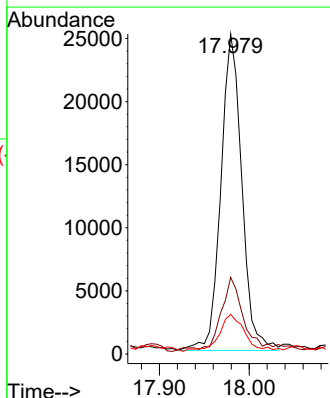
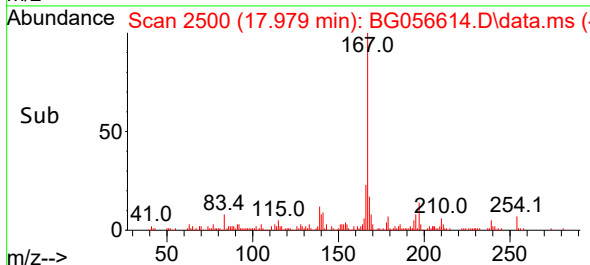
Reviewed By :Christian Giraldo 02/13/2023
 Supervised By :Jagrut Upadhyay 02/13/2023

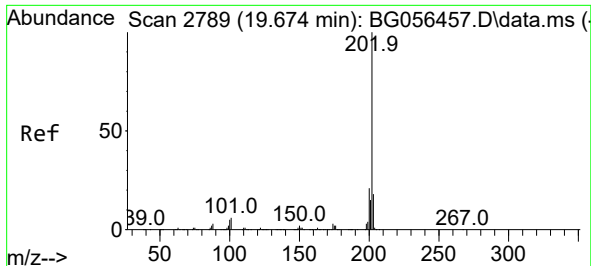


#73
 Carbazole
 Concen: 3.855 ng
 RT: 17.979 min Scan# 2500
 Delta R.T. -0.005 min
 Lab File: BG056614.D
 Acq: 10 Feb 2023 20:45



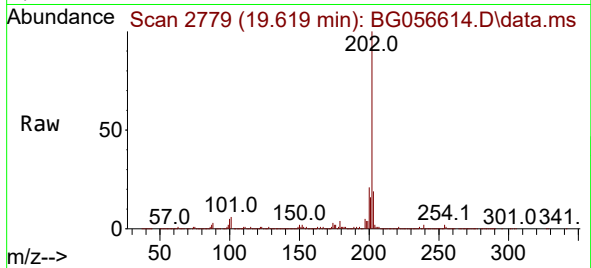
Tgt Ion:167 Resp: 40717
 Ion Ratio Lower Upper
 167 100
 166 24.0 17.8 26.6
 139 12.4 8.9 13.3





#75
Fluoranthene
Concen: 70.208 ng
RT: 19.619 min Scan# 21
Delta R.T. -0.005 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

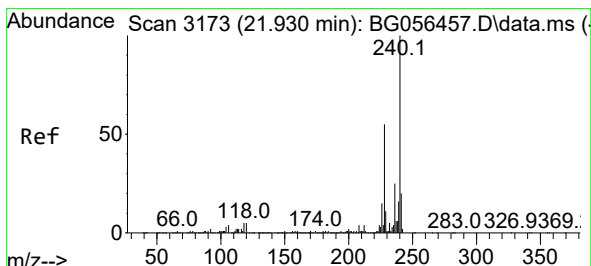
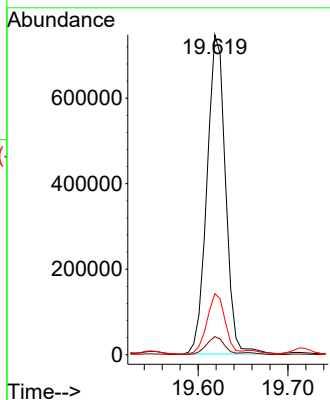
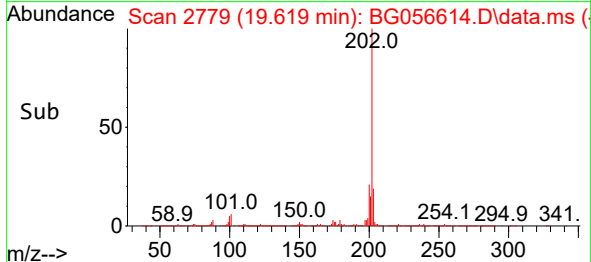
Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823



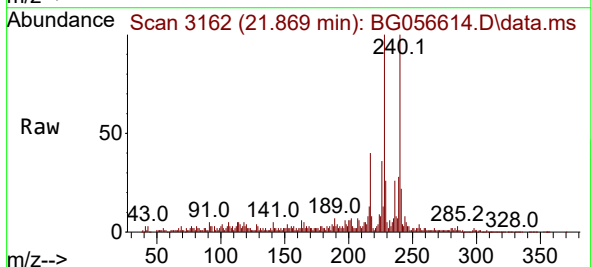
Tgt Ion:202 Resp: 107051
Ion Ratio Lower Upper
202 100
101 5.7 0.0 25.6
203 19.1 0.0 38.1

Manual Integrations
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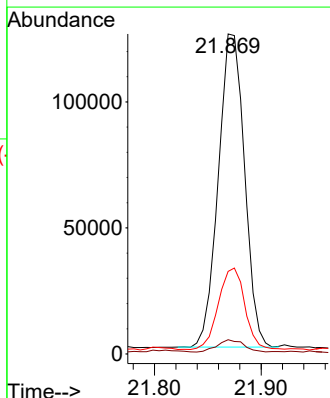
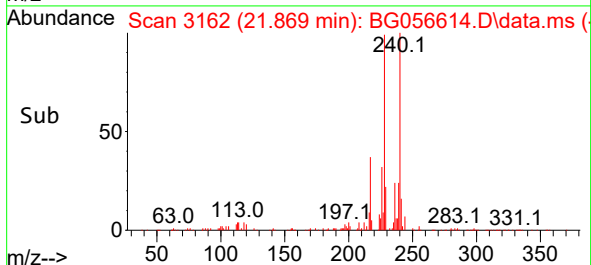
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023

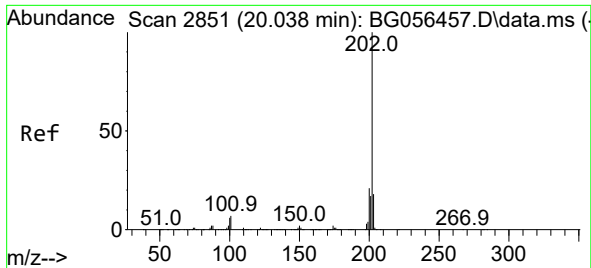


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.869 min Scan# 3162
Delta R.T. 0.007 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45



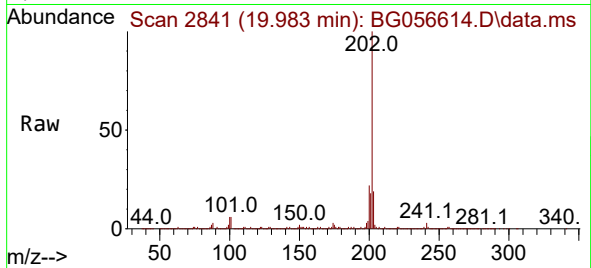
Tgt Ion:240 Resp: 212027
Ion Ratio Lower Upper
240 100
120 4.4 3.8 5.8
236 25.8 20.2 30.2





#78
 Pyrene
 Concen: 74.278 ng
 RT: 19.983 min Scan# 2851
 Delta R.T. 0.001 min
 Lab File: BG056614.D
 Acq: 10 Feb 2023 20:45

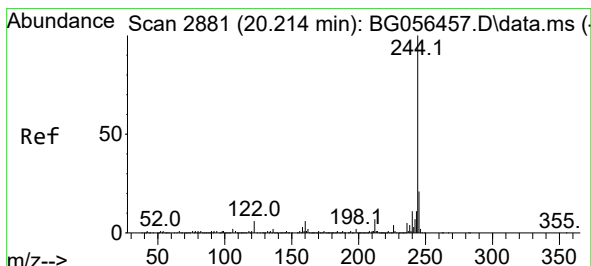
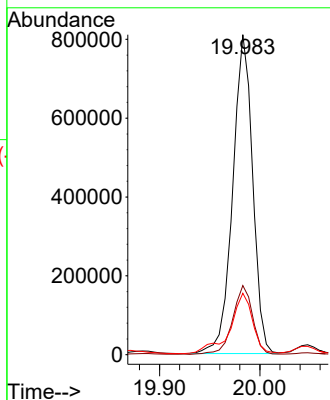
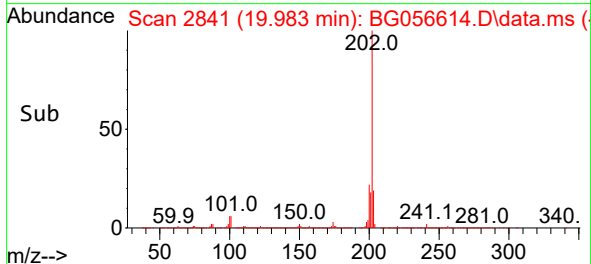
Instrument :
 BNA_G
 ClientSampleId :
 JPP-51B-020823



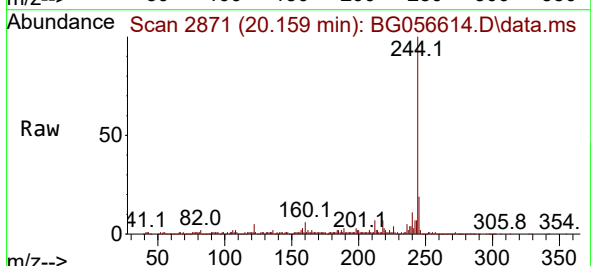
Tgt Ion:202 Resp: 1120100
 Ion Ratio Lower Upper
 202 100
 200 21.6 16.7 25.1
 203 19.2 14.4 21.6

Manual Integrations
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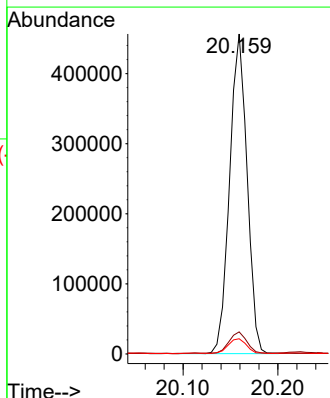
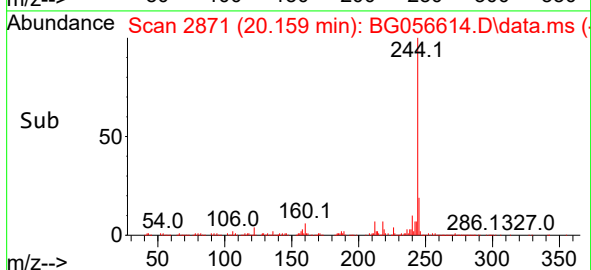
Reviewed By :Christian Giraldo 02/13/2023
 Supervised By :Jagrut Upadhyay 02/13/2023

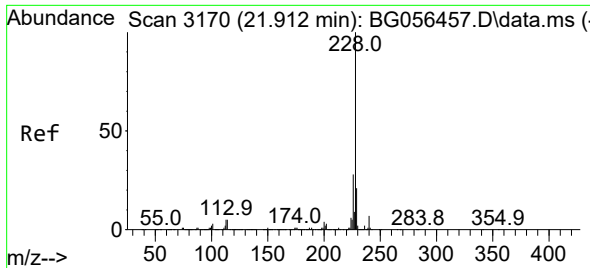


#79
 Terphenyl-d14
 Concen: 48.312 ng
 RT: 20.159 min Scan# 2871
 Delta R.T. 0.001 min
 Lab File: BG056614.D
 Acq: 10 Feb 2023 20:45



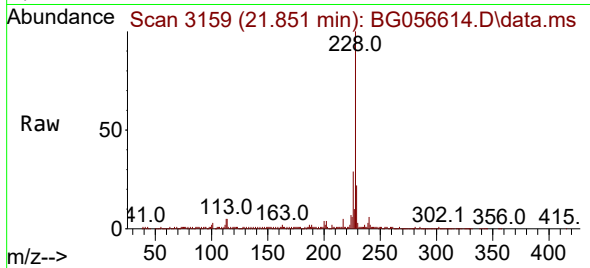
Tgt Ion:244 Resp: 583214
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.5 8.3
 122 4.8 4.4 6.6





#81
Benzo(a)anthracene
Concen: 48.631 ng
RT: 21.851 min Scan# 31159
Delta R.T. 0.013 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

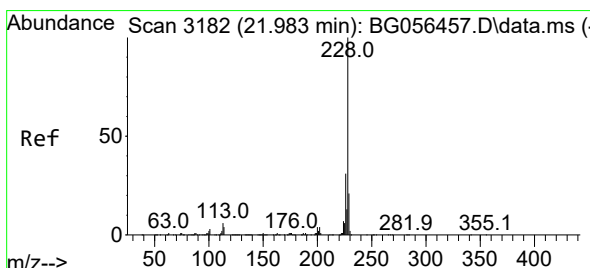
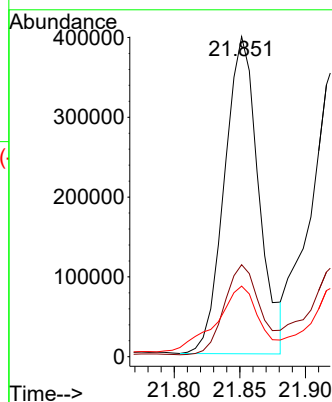
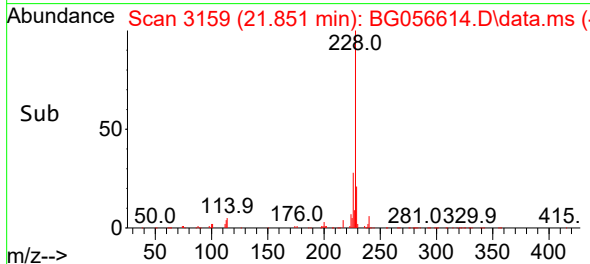
Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823



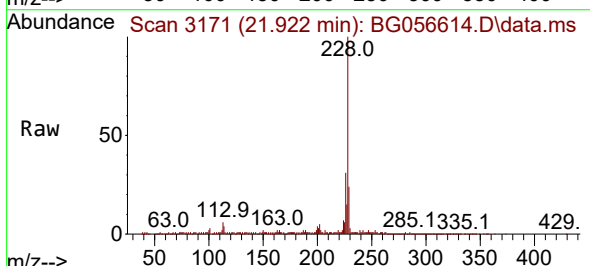
Tgt Ion:228 Resp: 720868
Ion Ratio Lower Upper
228 100
226 28.7 22.4 33.6
229 22.0 16.5 24.7

Manual Integrations
APPROVED

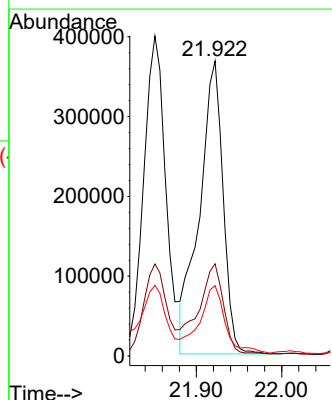
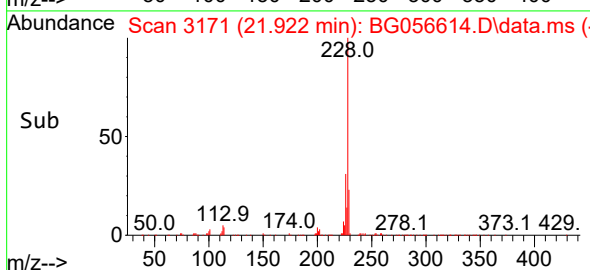
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023

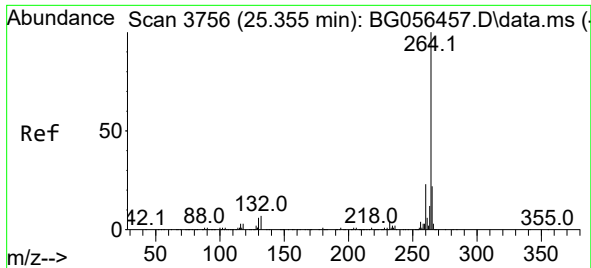


#83
Chrysene
Concen: 50.931 ng
RT: 21.922 min Scan# 3171
Delta R.T. 0.013 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45



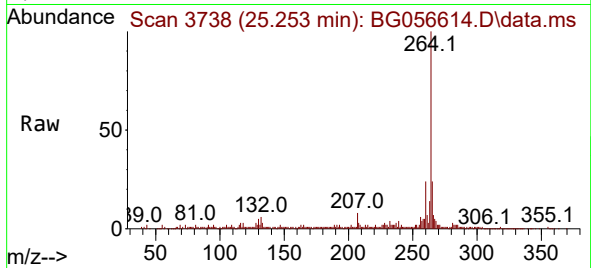
Tgt Ion:228 Resp: 709269
Ion Ratio Lower Upper
228 100
226 31.3 25.0 37.4
229 23.8 16.4 24.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.253 min Scan# 31
Delta R.T. 0.019 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

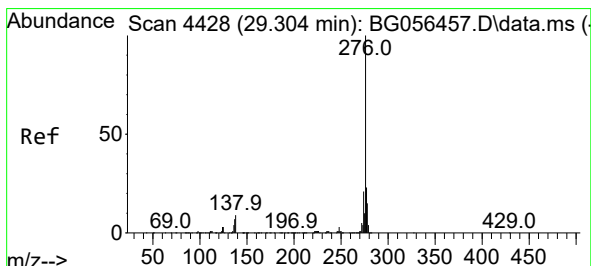
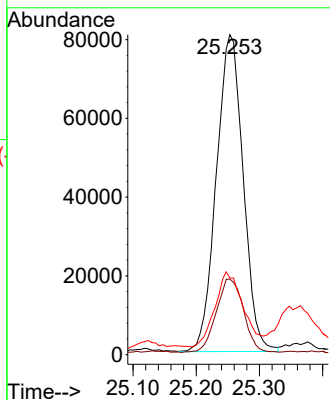
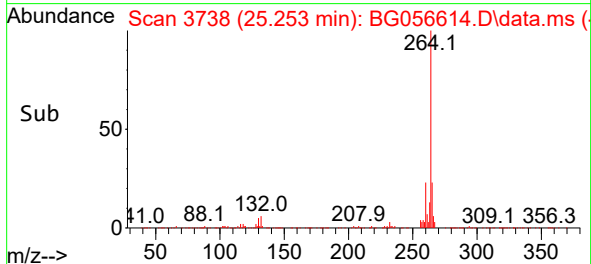
Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823



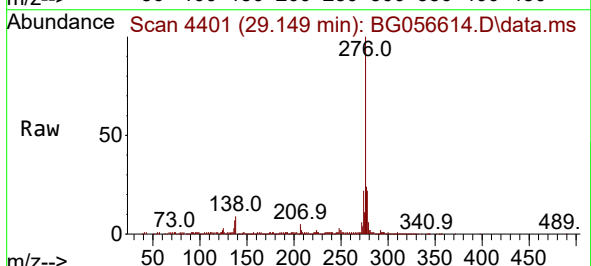
Tgt Ion:264 Resp: 237732
Ion Ratio Lower Upper
264 100
260 23.6 18.2 27.4
265 23.9 18.1 27.1

Manual Integrations
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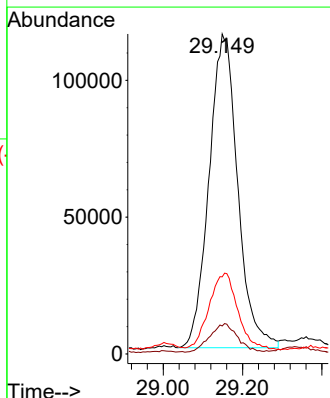
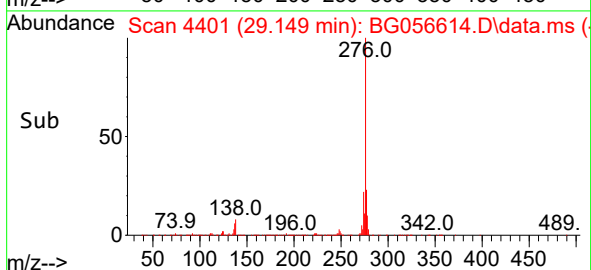
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023

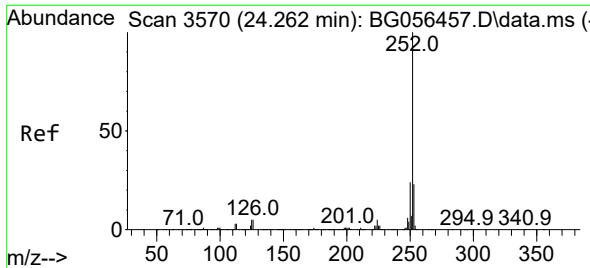


#87
Indeno(1,2,3-cd)pyrene
Concen: 33.058 ng
RT: 29.149 min Scan# 4401
Delta R.T. 0.019 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45



Tgt Ion:276 Resp: 575278
Ion Ratio Lower Upper
276 100
138 9.0 9.4 14.2#
277 24.4 20.3 30.5





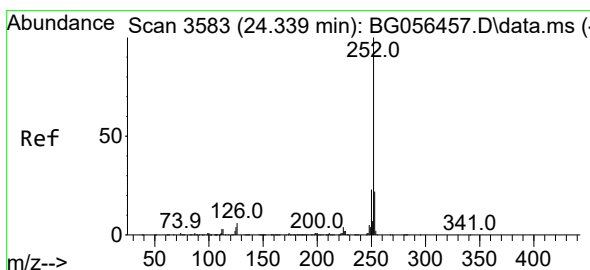
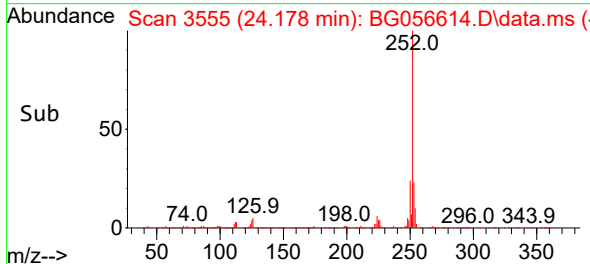
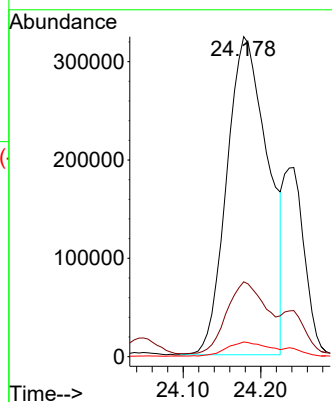
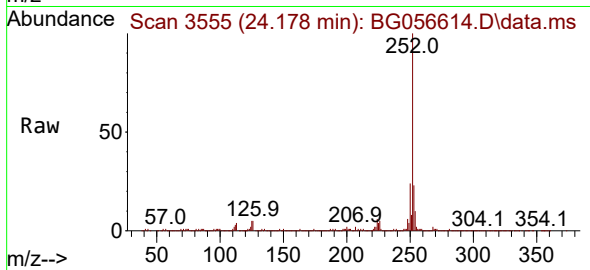
#88
Benzo(b)fluoranthene
Concen: 80.894 ng
RT: 24.178 min Scan# 3555
Delta R.T. 0.019 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

Instrument :
BNA_G
ClientSampleId :
JPP-51B-020823

Tgt Ion:252 Resp: 119366
Ion Ratio Lower Upper
252 100
253 23.4 18.1 27.1
125 4.6 3.9 5.9

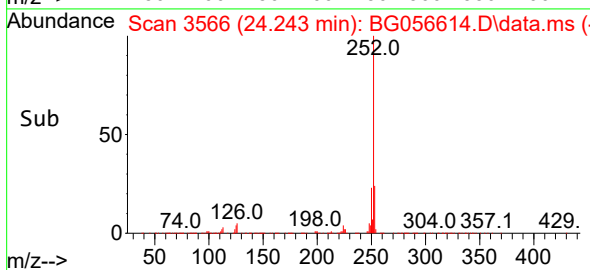
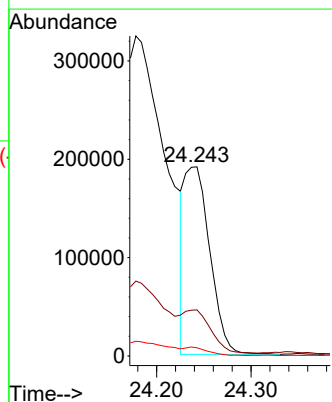
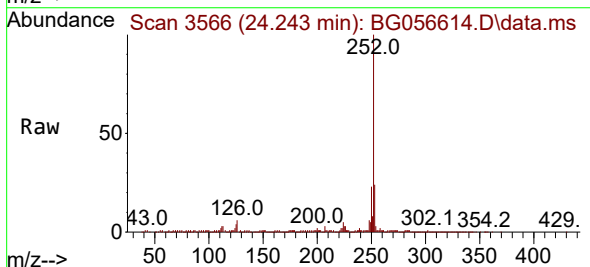
Manual Integrations
APPROVED

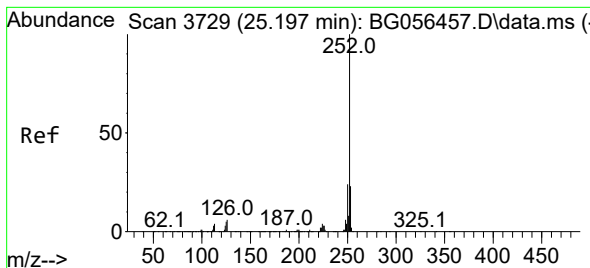
Reviewed By :Christian Giraldo 02/13/2023
Supervised By :Jagrut Upadhyay 02/13/2023



#89
Benzo(k)fluoranthene
Concen: 23.911 ng m
RT: 24.243 min Scan# 3566
Delta R.T. 0.013 min
Lab File: BG056614.D
Acq: 10 Feb 2023 20:45

Tgt Ion:252 Resp: 356232
Ion Ratio Lower Upper
252 100
253 24.4 17.5 26.3
125 4.3 3.4 5.0





#90

Benzo(a)pyrene

Concen: 62.480 ng

RT: 25.100 min Scan# 31

Delta R.T. 0.019 min

Lab File: BG056614.D

Acq: 10 Feb 2023 20:45

Instrument :

BNA_G

ClientSampleId :

JPP-51B-020823

Tgt Ion:252 Resp: 90817

Ion Ratio Lower Upper

252 100

253 23.1 18.4 27.6

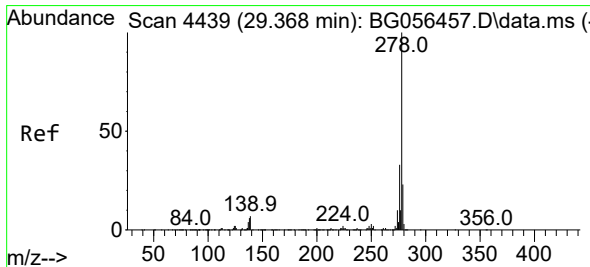
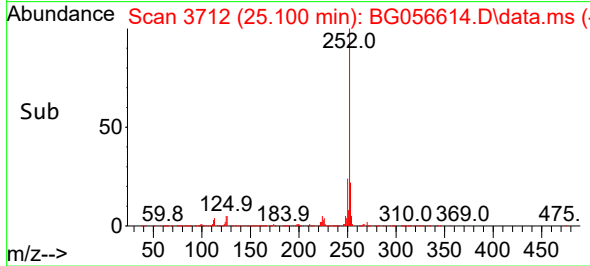
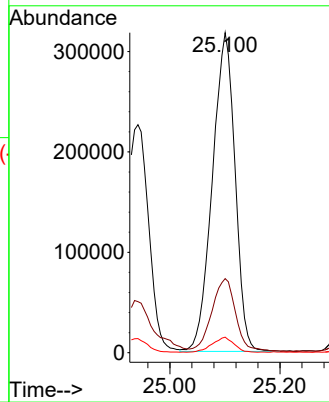
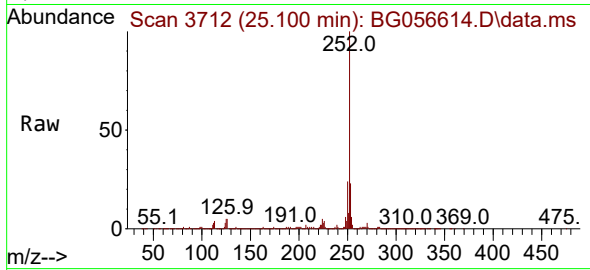
125 4.9 4.1 6.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/13/2023

Supervised By :Jagrut Upadhyay 02/13/2023



#91

Dibenzo(a,h)anthracene

Concen: 11.267 ng

RT: 29.172 min Scan# 4405

Delta R.T. -0.011 min

Lab File: BG056614.D

Acq: 10 Feb 2023 20:45

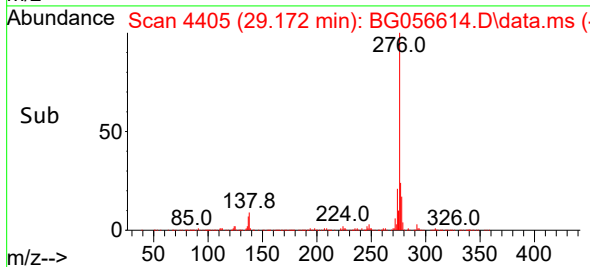
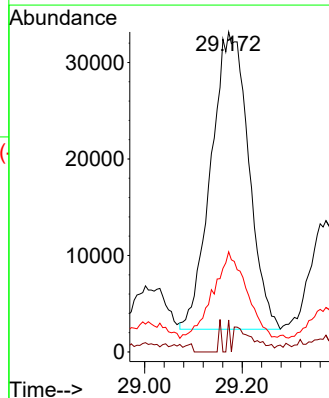
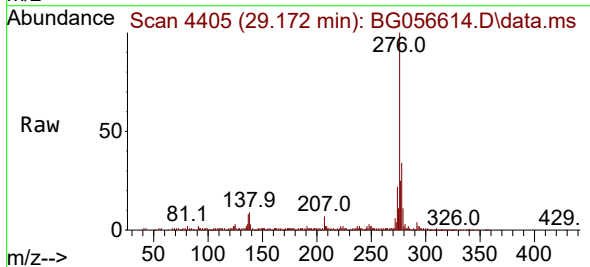
Tgt Ion:278 Resp: 164586

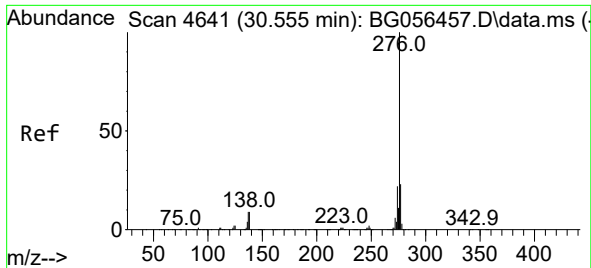
Ion Ratio Lower Upper

278 100

139 10.0 5.5 8.3#

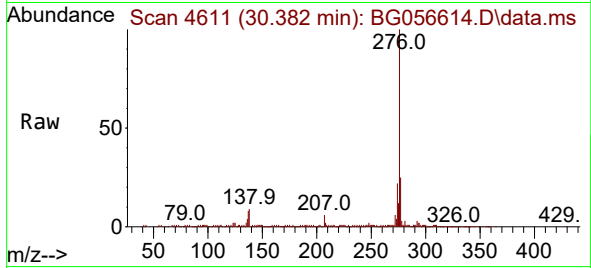
279 31.3 18.8 28.2#





#92
 Benzo(g,h,i)perylene
 Concen: 41.288 ng
 RT: 30.382 min Scan# 40
 Delta R.T. 0.031 min
 Lab File: BG056614.D
 Acq: 10 Feb 2023 20:45

Instrument :
 BNA_G
 ClientSampleId :
 JPP-51B-020823



Tgt Ion: 276 Resp: 581935
 Ion Ratio Lower Upper
 276 100
 277 25.5 18.5 27.7
 138 8.6 7.4 11.0

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 02/13/2023
 Supervised By :Jagrut Upadhyay 02/13/2023

